

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/006818 A1

(51) International Patent Classification⁷: **H05B 37/02, 33/02**

(21) International Application Number:
PCT/FI2004/000395

(22) International Filing Date: 28 June 2004 (28.06.2004)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data:
20030959 27 June 2003 (27.06.2003) FI

(71) Applicant (for all designated States except US): PLAN-
MECA OY [FI/FI]; Asentajankatu 6, FI-00880 Helsinki
(FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DE GODZINSKY,
Christian [FI/FI]; Honkamäentie 3, FI-01260 Vantaa (FI).

(74) Agent: TAWAST, Juha; Planmeca Oy, Asentajankatu 6,
FI-00880 Helsinki (FI).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

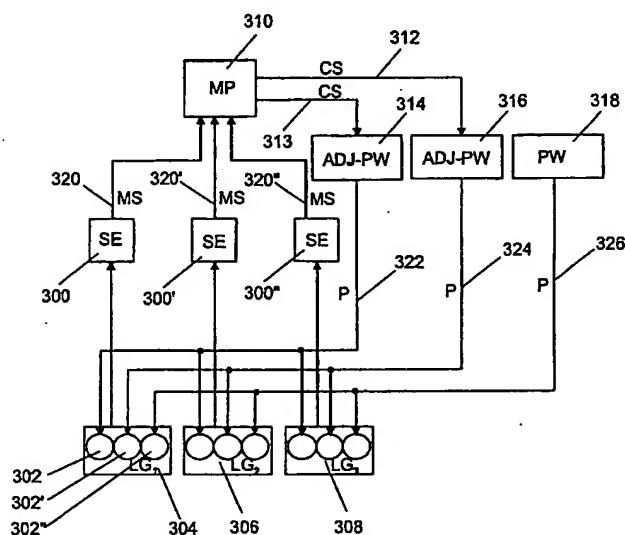
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: LED OPERATION LIGHT



(57) Abstract: A LED operation light, comprising at least two power sources, at least one of which is an adjustable power source, at least two LED units, and measuring and control means. The LED units, which comprise one or more LED components, emit light in response to power received from the power source. The LED components have been arranged to produce emission of light color components of at least two different wavelengths. The measuring means have been arranged to measure light emission of the LED unit and, based on measurement data, to generate control information to be sent to the adjustable power source to adjust the magnitude of power to be supplied to the LED unit. The light emission of the LED component changes as the received power changes, which again results in a change in the correlation between the emitted light color components, and therefore in the color temperature.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.